# Fifth National Green Power Marketing Conference: Powering the New Millennium

August 8, 2000

Denver, CO

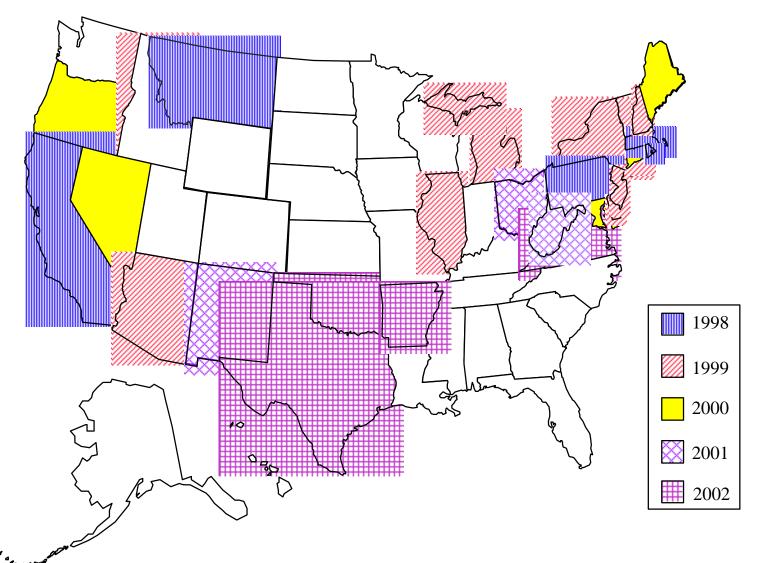
# What's Happening in Competitive Markets?

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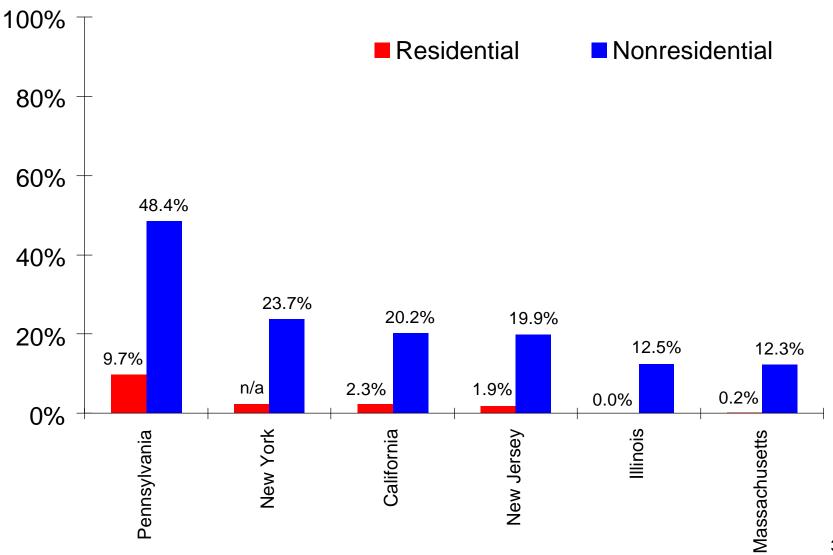
# **Market Opening Status**



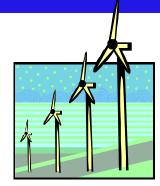
# **Market Background**

- 24 states have adopted customer choice to date
- Total IOU Customers = ~ 92 million
- Less than 20 million have access to choice currently
- By the end of 2002 ~ 57 million customers will have access to choice
- To date, a little over 1 million customers have selected an alternative supplier

# **Load Migration by State – Spring 2000**

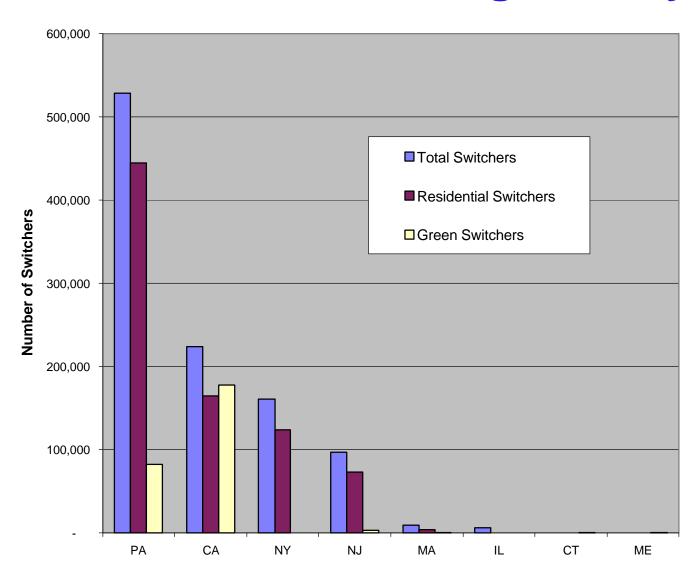


# Role of Green Power in Competitive Markets



- As of July 2000, 17 states fully or partially open to competition with retail green offerings in 6 (CA, PA, MA, NJ, ME, CT) and wholesale green through APX markets in other states
- 53 MW of new installed capacity majority wind and geothermal
- Another 40 MW planned nearly all wind

# **Residential Switching Activity**



# PA Residential Customer Demographics

- Green customers are more likely to have:
  - → High energy use (84% over \$50/month)
  - ◆ College education
  - ◆ Larger households, more children
  - → High organic product consumption
  - ◆ Energy conservation awareness
  - ◆ High Internet use
  - ◆ Wealth (28% over \$75,000/year)

#### **PA Decision Factors**

- Green switchers
  - ◆ Best for environment
  - ◆ Lowest price
  - Company has environmental philosophy
  - ◆ Reduce air pollution
  - ◆ Lowest cost green power
- Non-green switchers
  - ◆ Lowest price

## Role of C, I, & I Customers

- Commercial/Industrial
  - MCI WorldCom
  - Toyota Motor Sales (40 million kWh)
  - Kinko's
  - Patagonia
  - Birkenstock
  - Los Angeles World Airports (50% by 2010)
  - Fetzer Vineyards (5 million kWh)
  - Time Warner Communications (1,700 accounts)

#### Institutional

- City of Chicago (80 MW)
- Assoc. of CA Water Agencies
- Cities of Santa Barbara, Santa Monica (5 MW), Oakland (9 MW)
- U.S Postal Service (1000 sites for 30 million kWh)
- ◆ PA Dept. of General Services (37.5 million kWh)
- Episcopal Diocese of CA
- ABAG

# **Retail Suppliers**

#### Active

- Green Mountain (CA, PA, NJ)
- Commonwealth Energy (a.k.a Electric America) (CA, PA, NJ?)
- ◆ Go-Green.com (CA)
- Conectiv (NJ)
- CT Energy Cooperative (CT)
- ◆ ECAP (PA)
- Mack Services (PA)
- Atlantic Energy (ME)
- Essential.com (MA)
- AllEnergy (MA)
- Community Energy (PA)
- Utility.com

#### Dropped Out

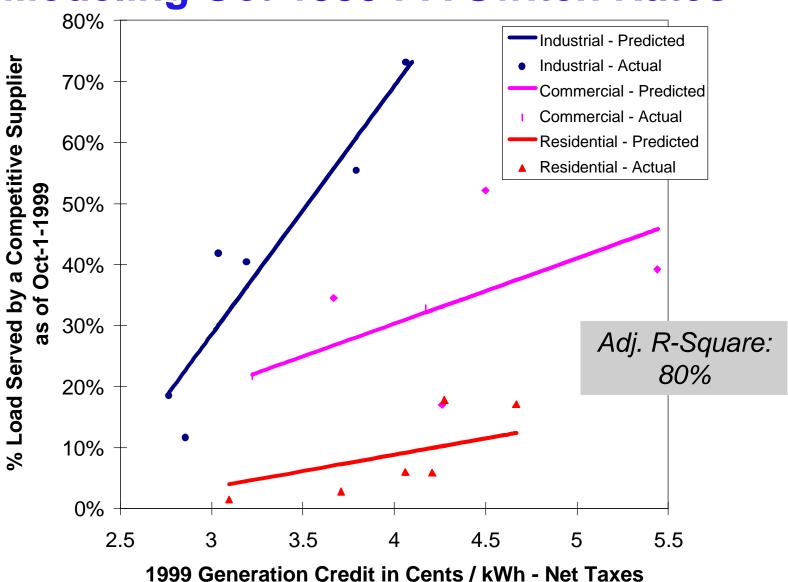
- Enron Energy Services (CA)
- EdisonSource (CA)
- PG&E Energy Services (CA)
- Conectiv (PA)
- Keystone Energy Services (CA)
- ◆ Friendly Power Corp. (CA)

#### **Market Drivers**

- Basic Market Rules
  - ◆ Default service
  - Market size
  - Wholesale costs
  - Wholesale market structure
  - Business rules
  - Stranded Costs
  - Competitive Metering,
     Billing and Customer
     Service

- Renewable Energy Policies
  - RPS
  - SBC funding
  - Disclosure and labeling requirements
  - ◆ Definitions of "green"
  - Existing and new resources
  - Certification
  - ◆ Transmission pricing

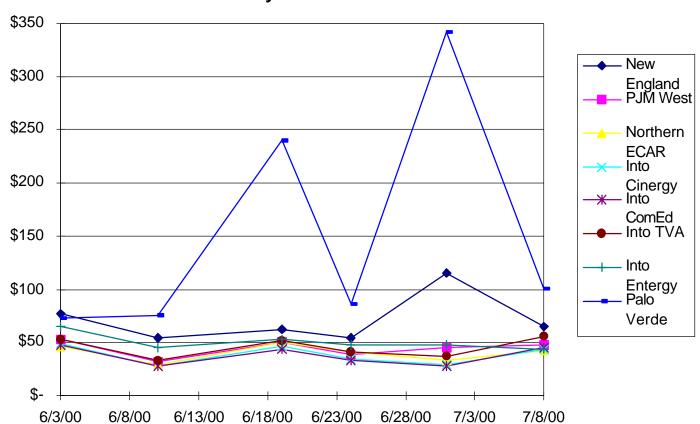
## **Modeling Oct-1999 PA Switch Rates**



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# Wholesale Price Spikes in 2000

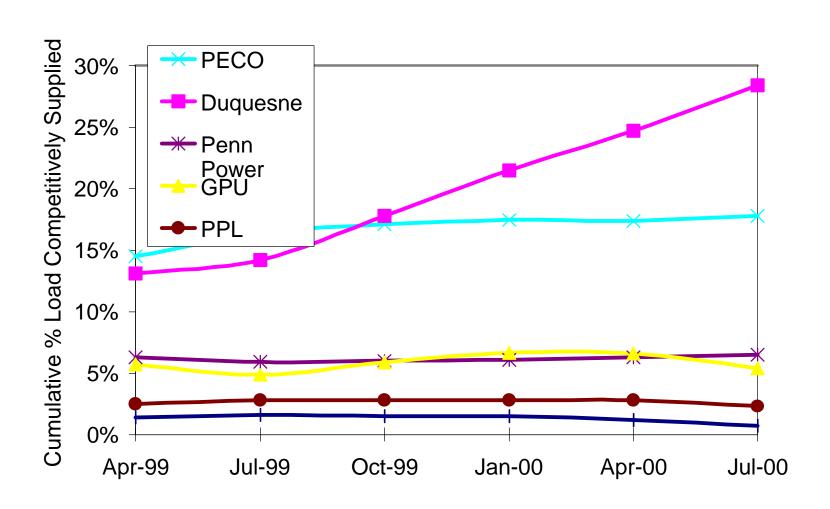
# **Spot Market Electricity Prices Weekly Indices - Summer 2000**



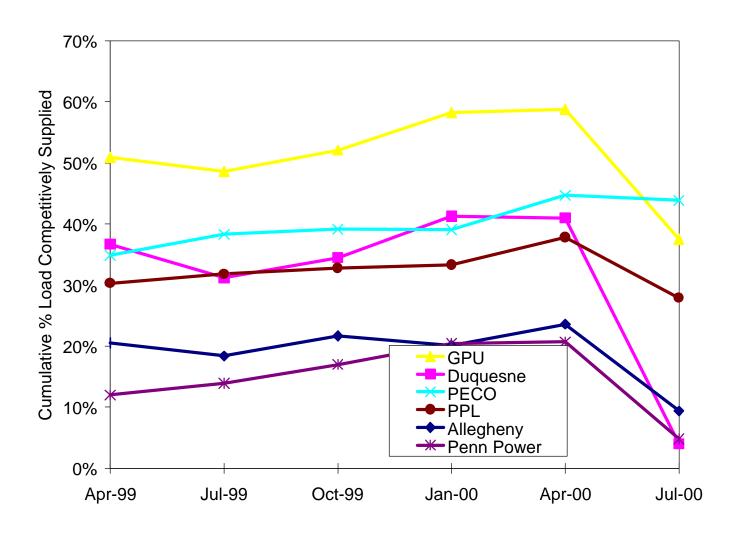
# **Customer Dumping**

- Recent rash of green customers being dumped in CA and PA due to high wholesale prices and other related issues
  - ◆ In PA, Conectiv drops all 70,000 residential customers, including 20,000 green customers
  - ◆ In CA, Commonwealth Energy loses contract with SANDAG and turns back undisclosed # of customers

# PA Residential Switching Trend



# **PA Commercial Switching Trend**



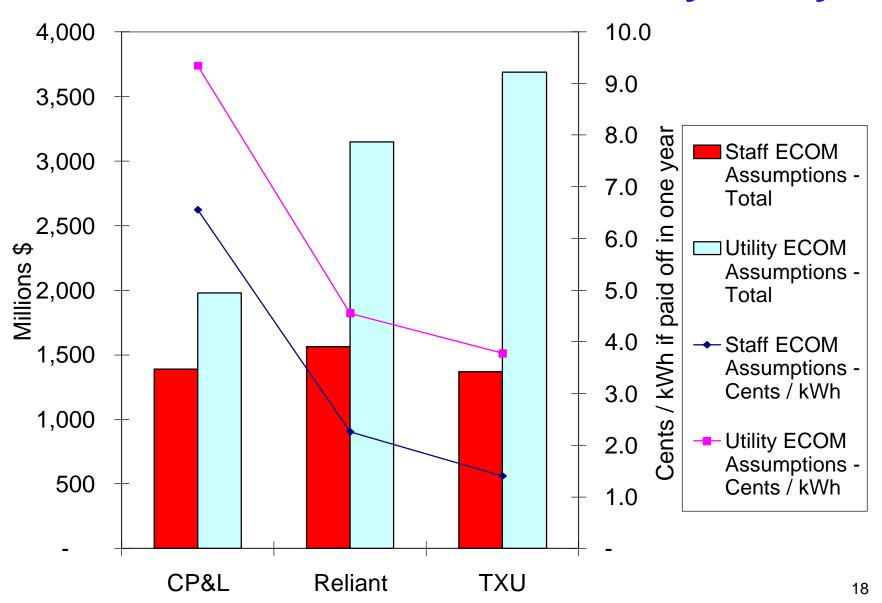
#### **Market Status**

- NJ Recent decline in competitive load; Internet switching now allowed, still no telephone switching; green switch rates expected to rise as marketing ramps up
- CA Prior to summer price spikes, slow and steady growth in competitive load; recently markets declared dysfunctional; SDG&E customers fully exposed to market volatility; no surge in activity expected any time soon; hearings to tweak AB 1890
- PA Residential switch rates have not declined significantly even with dumping; expect increased activity in the fall; free parking still an issue
- MA Recent decrease in competitive share of load; DTE established market-based default rates

#### **New Markets Outlook**

- CT 4 marketers approved, 6 others awaiting approval, 3 withdrew, CT Energy Cooperative only green marketer to date reporting 200 switchers; lengthy approval process, \$250,000 bond, only DISCO billing, default service not subject to RPS
- OH 20% switching requirement by 2003; shopping incentives for early shoppers, but suppliers are expected to find little headroom
- TX Preliminary estimates of price to beat (5 cents/kWh) should provide good amount of headroom but stranded costs still need to be worked out; strong RPS and other renewable-friendly policies make green market look promising

## TX: Estimated Stranded Costs by Utility



#### **Conclusions**

- Green power has become one of the most successful means of product differentiation, but it cannot transform the market itself
- Supplier margins drive switching activity
- In states where market rules are conducive to competition, expect green power to continue to play key role
- Activity is expected to pick up in the fall
- Enough incentive for new generation out there that wholesale price spikes are not expected to be as dramatic next summer



## Its Darkest Before the Dawn



#### **Questions**



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